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Tekelec's IP^7 Products
Bringing Voice and Data Together

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Voice and data traveling across both the PSTN and IP network It's called convergence, and it's the future of communications.

Creating a converged network—one that seamlessly integrate: existing services with new technology—can be complex and challenging. While it's critical to implement new technologies, equally important to protect existing infrastructure investment and maintain today's high level of service. That's why provide are seeking ways to evolve their networks without sacrificing quality, reliability, and security.

SS7 is the technology solution that bridges the two networks, delivering the speed and economy of IP coupled with the secu and intelligence of the PSTN.

Tekelec's IP^7 product line delivers convergence solutions.

IP^7 CONNECTS VOICE AND DATA
Tekelec's IP^7 family of products links the PSTN and IP network using SS7. IP^7 provides connectivity and control between voic and data networks, allowing the two to interoperate. As a resu traditional carriers and new Internet service providers alike ca enjoy the tremendous cost advantages of packet-based netwo while offering the advanced services, quality, reliability, and security of switched networks. With IP^7 from Tekelec, the futu communications is here.
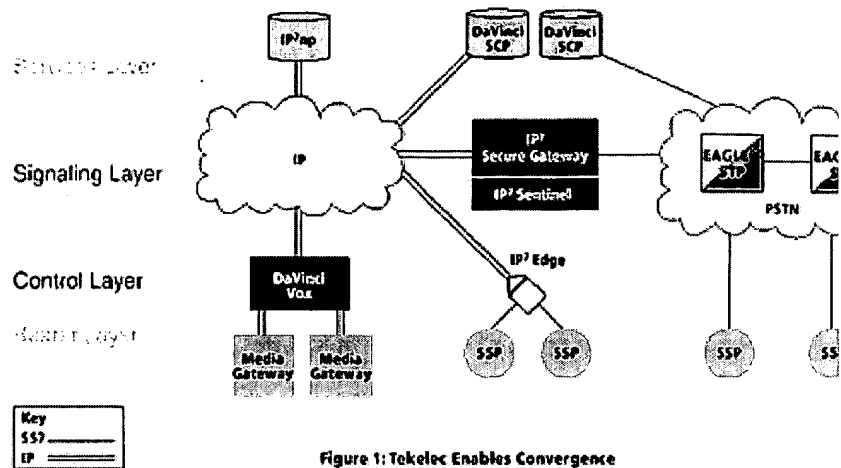
Figure 1: Tekelec Enables Convergence

IP⁷ SECURE GATEWAY ™ PROVIDES COST-EFFECTIVE COMMAND AND CONTROL

The IP⁷ Secure Gateway, a multi-protocol node at the core of signaling network, delivers signaling and advanced services in multi-protocol, multi-vendor networks. It provides a full range applications, including signaling for voice over packet, Interne access, remote access, new service deployment, and Internet offload.

With a fully scalable architecture, the IP⁷ Secure Gateway can handle from 2 to 450 links, 1 to 10 million dial access ports, a to 20 million busy hour call attempts (BHCAs). For large-scale off load operations, the IP⁷ Secure Gateway routes call contro signals to geographically diverse remote access servers (RASs an IP network—yet it appears as a single point code to the SS network. New IP network elements can be added to the netwc without adding new point codes.

Security is a major concern for service providers who rely on t existing SS7 network for critical services and interconnectivity other providers' networks. Faulty messages transferred from t IP network to the SS7 network can drain resources, causing delays, congestion, and failure. The IP⁷ Secure Gateway ensui network reliability and security by clearly defining the boundai between the two networks and performing message screening both.

Functional, scalable, and reliable, the IP⁷ Secure Gateway combines cost-effective IP transport

IP⁷ EDGE ™ —TAKING SS7 TO THE LIMIT

Tekelec's IP⁷ Edge, a multi-protocol traffic concentrator, delive long haul IP connectivity to the farthest reaches of the networ IP⁷ Edge enables up to 64 local network elements, such as loc and tandem switches, mobile switching centers and home locations registers, to transmit SS7 signaling messages to ren

network elements over an IP network.

With IP^7 Edge, carriers can leverage IP's dynamic bandwidth sharing to reduce overall transmission costs by as much as 5C percent. Existing SS7 nodes can be IP-enabled without expen: forklift replacements or costly software upgrades. IP^7 Edge dramatically increases the network's flexibility and eases the t of network configuration and management. IP^7 Edge brings th affordability of IP to the edge of the network.

IP^7 np ^{TM} —SIMPLIFYING NUMBER PORTABILITY AND NUMBER POOLING

Tekelec's IP^7 np is a number portability/number pooling soluti for IP-based protocols. With its IP interface, the IP^7 np databa enables packet-based query/response messages across an IP network. One IP-enabled platform can perform more than 20 thousand queries per second for up to 12 million ported numbers—all while capitalizing on IP's bandwidth flexibility an cost-effective transport. And since each IP^7 np node replaces multiple service control points (SCPs) in traditional networks, np also eases network management headaches. With IP^7 np, reality of local number portability finally lives up to the vision.

DAVINCI VOX ^{TM} —USING ONE GATEWAY CONTROLLER MANY MEDIA

A gateway-independent controller for multimedia services, the DaVinci VoX brings fully featured voice services to multi-vend ATM and IP environments. DaVinci VoX's tandem switching capabilities enable carriers to use IP or ATM technologies for v services such as flexible translations, screening, blocking, rou! and generating call detail records.

The DaVinci VoX interfaces to ATM or IP networks via propriet interfaces or standards-based interfaces such as Q.2931 or M(It interfaces to the PSTN through SS7 or ISDN primary rate interface (PRI) signaling. DaVinci VoX supports up to 1 million BHCA and high capacity SS7 connectivity to the IP^7 Secure Gateway. With DaVinci VoX, carriers can offer a full array of circuit-switched services at packet-switched prices.

DAVINCI SCP ^{TM} —USING ONE SERVICE CREATION ENVIRONMENT FOR MANY MEDIA

DaVinci SCP maintains the theme of vendor independence, bringing carriers the unique capability of interfacing to major switch vendors using industry-standards AIN 0.1. and AIN 0.2 well as custom network interfaces. With DaVinci SCP, carriers start to unify the TDM environment at a service level. And witl the introduction of DaVinci VoX, carriers can now take advant of integration with the DaVinci SCP on day one, offering enhar voice services such as travel card, prepaid calling or enhancec 800, 8XX, and NXX services.

IP^7 SENTINEL ^{TM} —KEEPING WATCH OVER THE NETWOF
When it comes to SS7 and IP network surveillance, Tekelec's
Sentinel is a tireless ally. The IP^7 Sentinel continuously monit
services implemented across both SS7 and IP networks, from
transport layer to the service layer. Service providers and car
can supervise SS7 and IP networks with complete reliability ai
security.

IP^7 Sentinel doesn't stop with passive monitoring. It enables L
to actively prevent and correct network-wide problems, all fro
central location. With IP^7 Sentinel, carriers and service provid
can maintain, monitor, and control their networks. It isolates,
analyzes, and resolves network faults with one integrated
platform—putting a welcome end to costly downtime. When IF
Sentinel keeps watch over the network, problems are eliminat
before they begin.

THE TEKELEC ADVANTAGE
The keys to success for any network—whether voice-centric, c
centric, or hybrid—are connectivity, control, and flexibility.
Together, these qualities form the foundation upon which all o
Tekelec's products and services are built.

For more than 20 years, Tekelec has set the standard in
developing innovative communications solutions. From it's hig
speed switching platforms to its suite of intelligent network
services, Tekelec helps providers leverage the newest Interne
based technologies while maintaining their existing networks.
What's more, all of Tekelec's offerings are built with the same
legendary reliability that has made Tekelec the preferred choi
telecommunications companies around the globe.

Tekelec. Turning next-generation technologies into now-
generation solutions. The Tekelec logo and EAGLE are register
trademarks. IP^7, IP^7 Secure Gateway, IP^7 Edge, IP^7 np, IP^7
Sentinel, DaVinci, VoX, DaVinci VoX, and DaVinci SCP are
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